

## ABSTRACT

A system and method for generating a graphical image on a display is disclosed. The graphical image is generated from data describing at least one object. The display includes a plurality of positions. Each of the plurality of positions has an area. The system and method include determining if a portion of the at least one object intersects a current position of the plurality of positions and providing an output if the portion intersects the current position. The method and system further include providing a mask for the portion if it is determined that the portion intersects the current position. The mask indicates an extent to which the at least one portion occupies the area of current position. The method and system further include utilizing the mask to provide antialiasing. The method and system also include repeating the determining, one mask providing, and utilizing steps for each of the plurality of positions.

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